Filter Panels

Fixed-Mounted Off-Line Filtration

Donaldson Filter Panels provide fixed-mount offline/kidney loop filtration and a turnkey approach to supplemental filtration for your in-plant machinery and hydraulic equipment – helping to reduce costs and achieve and maintain proper ISO cleanliness levels.

Donaldson filter panels are offered with 4 different pump flow rates. Reservoir size, fluid viscosity and fluid temperature will help determine the correct flow rate. Filter panels feature dual HMK05 filtration utilizing Donaldson's exclusive high efficiency Synteq™ media. The filters are plumbed in series giving you the option of coarse/fine particle removal or install a water absorbing filter for water/particle removal.

Applications

- Transferring New Oil
- Cleaning Stored Oil

Notice

Donaldson Filter Panels include electric motors and indoor installation is recommended. Exposure to rain, snow and other elements may cause electric motors to fail. Failures that result from misapplication, improper use or storage are not covered by the Donaldson warranty.

Reference the aftermarket warranty: document no. F110064.

Fluid Compatibility

Not for use with diesel fuel or gasoline. For fuel solutions, please contact the Donaldson Clean Solutions team at clean.solutions@donaldson.com or 800-374-1374.

Features	Benefits
High efficiency media grades	Cost effective filtration
Dual-stage filtration	Coarse/Fine or Water/Particulate removal
Differential pressure indicators	Alerts you when to change filters
Optional overload protected switch	Prevents motor from overheating
Sample port	Enables system cleanliness measurements
Integrated safety relieve valve	Protects against over pressurization

Applications	
Offline filtration	Supplement existing filtration to achieve target ISO cleanliness levels.
Water removal	Using Donaldson water removal filters to remove free water from the system.
Filter new fluid	Clean up new fluids because they are usually highly contaminated. Don't contaminate your equipment with new fluids. Protect your equipment with proper filtration.

Filter Panel Assembly Choices

NOTE: Filters ordered separately

The Importance of Temperature When Selecting a Filter Cart
Consider operating temperature ranges when determining the proper viscosity filtration solution. It's crucial to select the proper viscosity option to maintain adequate flow and avoid restriction. Refer to the oil viscosity with temperature chart located on the front cover of the catalog.
Example: ISO Grade 32 Hydraulic Oil @ 68°F = 86.7 (cSt)

Assembly Part No.	Low Viscosity Max Viscosity 500 SUS (108 cSt)* Filters ordered separately			High Viscosity Max Viscosity 8000 SUS (1700 cSt)* Filters ordered separately
	X011299‡	X011300‡	X011301‡	X011302‡
Operating Temperature:	-10° F to 160° F (-23° C to 71° C)			
Gear Pump Flow Rate*:	3 gpm (11.4 lpm)	5 gpm (18.9 lpm)	10 gpm (37.9 lpm)	2 gpm (7.57 lpm)
TEFC Motor:**	1/2 hp, 1800 rpm	3/4 hp, 1800 rpm	1 hp, 1800 rpm	1 hp, 1200 rpm
Fluid Compatibility:	Mineral-based fluids, water glycols, polyol esters			
Connections	Inlet (pump) : SAE 12 O-Ring Outlet: SAE 20 O-Ring			Inlet (pump) : SAE 12 O-Ring Outlet: SAE 20 O-Ring
Electrical Service: 115 volts, 60 Hz single phase	8.4 amp	14 amp	14 amp	14 amp
Dry Weight:	Approx. 95 lbs. (43 kg)			Approx. 120 lbs. (54 kg)
Dimensions:	Height: 20" (508mm)		Width: 36" (915mm)	Depth: 8" (203mm)
Filter Notes:	Requires 2 Filters			Requires 4 Filters

**Totally Enclosed Fan-Cooled

‡These part numbers now have relief valves in the pump. The relief valve setting is: 10.3 bar (150 PSI)

Filter Choices

Media Type	$\alpha_{x(c)} = 1000$	$\beta_{x(c)} = 2$	$\beta_{x(c)} = 1000$	Length		Part No.	Comments
	Rating based on ISO 23369	Rating based on ISO 16889		in	mm		
Synteq Synthetic			<4 µm	14.2	361	P564468	
			6 µm	11.6	294	P165675	
			6 µm	11.6	294	P171274‡	
			6 µm	14.2	361	P179763	
Alpha-Web	10 µm			14.2	361	DBH0949	
Synteq Synthetic			11 µm	7.6	193	P176207	
			11 µm	11.6	294	P165659	
			11 µm	11.6	294	P573996‡	
			11 µm	14.2	361	P170949	
			23 µm	7.6	193	P176208	
			23 µm	11.6	294	P165569	
			23 µm	11.6	294	P171276‡	
			23 µm	14.2	361	P173789	
			50 µm	11.6	294	P165672	
			50 µm	14.2	361	P573353	
Water Absorbing		10 µm		11.6	294	P179075	Absorbs 300 ml water

‡Fluorocarbon o-ring, epoxy are required when using diester, phosphate ester fluids, water glycol, water/oil emulsions and HWCF (high water content fluids) over 150°F.